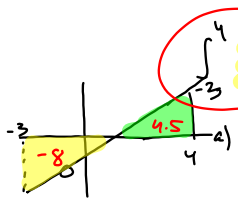
39. integrand $\int_{-3}^{4} \frac{x^2-1}{x+1}\,dx = -3.5$



a) discontinuous at $x=-1$

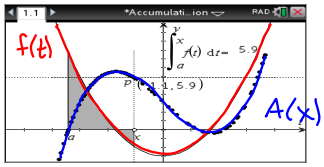
$\frac{(x+1)(x-1)}{x+1} = x-1$ if $x \neq -1$

Nov 8-9:18 AM

5.3 Definite Integrals and Antiderivatives

A function defined by a definite integral

$A(x) = \int_a^x f(t)\,dt$



$A'(x) = f(x)$

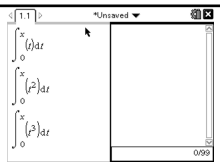
$\int_a^x t^n\,dt = \frac{x^{n+1}}{n+1} - \frac{a^{n+1}}{n+1}$

$\int_a^x f(t)\,dt = F(x) - F(a)$

$F' = f$ or F is an antider. of F

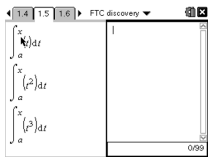
Nov 11-9:35 PM

Use FTC Discovery.tns to evaluate the following integrals and look for a pattern.



Nov 11-9:55 PM

Evaluate the following integrals and look for patterns



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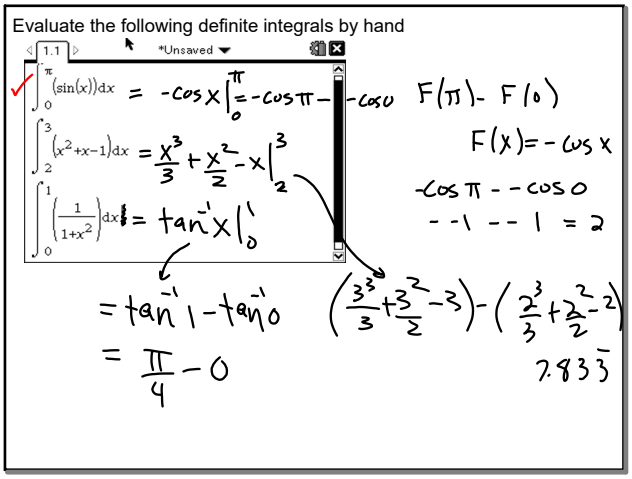

Nov 11-10:28 PM